

# Cartridge 9 mm FX® Marking GEN 2, TOXFREE® Primer

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Cartridge 9 mm FX® Marking GEN 2, TOXFREE® Primer
<b>Other Means of Identification</b>	ZP Revision 2
<b>Product Family</b>	Cartridge, 9 MM, GEN 2
<b>Recommended Use</b>	Cartridge for training use.
<b>Restrictions on Use</b>	For military and law enforcement personnel only.
<b>Manufacturer/Supplier Identifier</b>	General Dynamics - Ordnance and Tactical Systems - Canada Inc, 5, Montée des Arsenaux, Repentigny, Québec, J5Z 2P4, 450-581-3080
<b>Emergency Phone No.</b>	MD-UN, 1-888-922-3330, (Canada/U.S.A)
<b>SDS No.</b>	0391
<b>Date of Preparation</b>	mai 03, 2024

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Explosive - Division 1.4; Skin irritation - Category 3; Aquatic hazard (Acute) - Category 3

### Label Elements



Signal Word:  
Warning

### Hazard Statement(s):

Fire or projection hazard.  
Causes mild skin irritation.  
Causes eye irritation.  
Harmful to aquatic life.

### Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep only in original packaging.  
Do not subject to grinding, shock, or friction.  
Wear eye protection, protective gloves.  
Wash hands and skin thoroughly after handling.  
Do not handle until all safety precautions have been read and understood.  
Avoid release to the environment.

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Response:

In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice or attention.

Collect spillage.

Storage:

Store in accordance with local, regional, national and international regulations.

Dispose of contents and container in accordance with local, regional, national and international regulations.

Disposal:

Refer to manufacturer or supplier for information on recovery or recycling.

Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

This product is an explosive article which is composed of a finished cartridge containing various components that are sealed completely within the cartridge. Under normal conditions of handling, no exposure to any of the harmful components inside the cartridge is expected and no health effects are generally expected as supplied.

When cartridges are fired, or otherwise discharged, gases, fumes and projectiles may be formed. These gases, fumes and projectiles may contain trace amounts of the components inside the cartridges. These gases, fumes and projectiles may be irritating to the eyes, skin and respiratory tract.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	EC Number	Other Names
Copper, metal	7440-50-8	45 - 70	231-159-6	- -
Zinc metal	7440-66-6	10 - 30	231-175-3	- -
Poly(oxymethylene)	9002-81-7	10 - 30	- -	Acetal homopolymer; POM
Polypropylene	9003-07-0	1 - 5	618-352-4	PP
Cellulose nitrate	9004-70-0	0.1 - 1	618-392-2	Nitrocellulose; NC
Potassium nitrate	7757-79-1	0.1 - 1	231-818-8	- -
2,4-Cyclohexadien-1-one, 6-diazo-2,4-dinitro-	4682-03-5	0.1 - 1	225-134-9	Diazodinitrophenol; DDNP
Glycerol trinitrate	55-63-0	trace	200-240-8	Nitroglycerin; NG
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide	109-27-3	trace	203-659-4	Tetrazene; GNGT
Aluminum Powder	7429-90-5	trace	231-072-3	- -

#### Notes

Concentrations are expressed in % weight/weight.

Concentrations listed above are the final concentration in the complete finished cartridge.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

None required under normal conditions.

If projectiles are fired, or otherwise discharged, the following treatment may be necessary:

Move to fresh air.

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Get medical advice or attention if you feel unwell or are concerned.

#### **Skin Contact**

None required under normal conditions.

If cartridges are fired, or otherwise discharged, the following treatment may be necessary:

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes.

If exposed or concerned, get medical advice or attention.

#### **Eye Contact**

None required under normal conditions.

If cartridges are fired, or otherwise discharged, the following treatment may be necessary:

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If eye irritation persists, get medical advice or attention.

#### **Ingestion**

None required under normal conditions.

Not expected, based upon the current form of the product.

#### **Most Important Symptoms and Effects, Acute and Delayed**

If cartridges are fired, or otherwise discharged, gases, fumes and projections may be formed. These gases, fumes and projections may contain trace amounts of the components inside the cartridges. These gases, fumes and projections may be irritating to the eyes, skin and respiratory tract.

#### **Immediate Medical Attention and Special Treatment**

##### **Target Organs**

If fired different decomposition product could have effects on: digestive system, respiratory system, nervous system.

##### **Special Instructions**

Treat symptomatically.

##### **Medical Conditions Aggravated by Exposure**

None known. If you feel unwell, seek medical advice.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Explosive product: do not fight the fire.

If fire has not reached explosives:

Use flooding quantities of water or other suitable extinguishing agent. Carbon dioxide, dry chemical powder or appropriate foam.

#### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Product**

Can ignite if strongly heated.

Can be ignited by static discharge.

Ignites readily. When ignited burns vigorously and persistently.

Heating may cause a fire or explosion.

Explosive; fire, blast or projection hazard.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; nitrogen oxides; corrosive sulfur oxides.

### **Special Protective Equipment and Precautions for Fire-fighters**

Do not fight fire when fire reaches explosives. Risk of explosion.

Evacuate area.

Fight fire from a safe distance or a protected location.

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

Cargo Fires: Packages bearing the 1.4 label or packages containing material classified as 1.4 are designed or

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packaged in such manner that when involved in a fire, may burn vigorously with localized detonations and projection of fragments.

Effects are usually confined to immediate vicinity of packages.

If fire threatens cargo area containing packages bearing the 1.4 label or packages containing material classified as 1.4, consider isolating at least 15 meters ( 50 feet) in all directions. Fight fire with normal precautions from a reasonable distance.

Tire or vehicle fires: Use plenty of water - FLOOD it! If water is not available, use CO<sub>2</sub>, dry chemical or dirt.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

Eliminate all ignition sources. Use grounded, explosion-proof equipment.

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Do not allow into any sewer, on the ground or into any waterway.

Minimize the use of water to prevent environmental contamination. It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Handle spilled products carefully. Do not subject product to mechanical shock. Remove all sources of ignition. Ventilate the area.

For solid, intact cartridges: pick up and arrange disposal.

If loose powder is present: generously moisten with ethanol and pick up with a cloth. Prevent drying of the material during this process

If spill occurs in an area where there is a fire burning: EVACUATE area. Refer to section 5.

All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Do not operate radio transmitters within 100 meters (330 feet) of electric detonators. Pick up and arrange disposal without creating dust.

### Other Information

Contact supplier, local fire and emergency services for help.

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs.

Electrically bond and ground equipment. Ground clips must contact bare metal.

Avoid shock, friction or impact. Do not skid, drag or drop containers.

Only use where there is adequate ventilation.

Wear personal protective equipment to avoid direct contact with this chemical.

Disassembly/assembly operations shall be conducted only by experienced personnel qualified to perform the task.

Follow appropriate explosive safety requirements. Local ordinances may apply.

### Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, well-ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity).

Protect containers from impact, vibration and shock.

Store in the original, labelled, shipping container.

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	STEL
Copper, metal	0.2 mg/m3	Not established	0.1 mg/m3	Not established
Zinc metal	Not established	Not established	Not established	Not established
2,4-Cyclohexadien-1-one, 6-diazo-2, 4-dinitro-	Not established	Not established	Not established	Not established
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide	Not established	Not established	Not established	Not established
Polypropylene	Not established	Not established	Not established	Not established
Poly(oxyethylene)	Not established	Not established	5 mg/m3	Not established
Cellulose nitrate	Not established	Not established	Not established	Not established
Potassium nitrate	Not established	Not established	Not established	Not established
Glycerol trinitrate	0.05 ppm Skin	Not established	0.1 mg/m3 Skin	Not established
Aluminum Powder	1 mg/m3 A4	Not established	5 mg/m3	Not established

A4 = Not classifiable as a human carcinogen.

### Appropriate Engineering Controls

General ventilation is usually adequate.

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses with side shields should be used with this product. If necessary, refer to U.S. OSHA 29 1310.133 or Canadian CSA Standard Z94.3-02.

#### Skin Protection

Not required, if used as directed.

Prevent skin contact. From firing residues and content of the cartridge.

#### Respiratory Protection

Not normally required if product is used as directed. Use a NIOSH approved dust respirator if dust levels exceed exposure limits.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Brass cartridge ending with a plastic sabot which contains a colored compound. Particle Size: Not applicable
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	Not applicable (melting); Not applicable (freezing)
<b>Boiling point/Initial boiling point</b>	Not applicable
<b>Boiling Range</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air = 1)</b>	Not applicable

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<b>Relative Density (water = 1)</b>	Not applicable
<b>Solubility</b>	Insoluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not applicable
<b>Auto-ignition Temperature</b>	>= 120 °C (248 °F)
<b>Decomposition Temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable (kinematic); Not applicable (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Solid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

Heating may cause a fire or explosion. Explosive; fire, blast or projection hazard.

Sensitive to mechanical impact.

### Chemical Stability

Normally stable.

Unstable under certain conditions - see Conditions to Avoid.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

May igniter if primer is struck.

Mechanical shock or impact. Friction.

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 120.0 °C (248.0 °F)

### Incompatible Materials

Oils, acids, alkalis, ammonium salts, ammonia and other corrosives materials.

### Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

Corrosive, oxidizing nitrogen oxides.

Corrosive sulfur oxides.

Decomposes in the presence of heat. May produce metal oxides and fumes.

## SECTION 11. TOXICOLOGICAL INFORMATION

The following hazards are not expected to be present unless the product is fired or otherwise discharged so that gases, fumes and/or projections are created.

Normal handling and shipping should not cause exposure to these hazards.

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Copper, metal	Not available	413 mg/kg (mouse)	375 mg/kg (rabbit)
Zinc metal	Not available	630 mg/kg	Not available
2,4-Cyclohexadien-1-one, 6-diazo-2,4-dinitro-	Not available	Not available	Not available
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide	Not available	Not available	Not available

Polypropylene	Not available	> 8000 mg/kg (rat)	Not available
Poly(oxymethylene)	> 22000 mg/m3 (rat)	> 11000 mg/kg (rat)	Not available
Cellulose nitrate	Not available	5000 mg/kg (rat)	Not available
Potassium nitrate	Not available	3015 mg/kg (rat)	Not available
Glycerol trinitrate	Not available	105 mg/kg (rat)	> 280 mg/kg (rabbit)
Aluminum Powder	> 1000 mg/m3 (male rat) (4-hour exposure)	Not available	Not available

#### Skin Corrosion/Irritation

After munitions have been fired, dust, vapours and/or fumes may cause irritation.

#### Serious Eye Damage/Irritation

After munitions have been fired, dust, vapours and/or fumes may cause irritation.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

##### Inhalation

After munitions have been fired, dust, vapours and/or fumes may be irritating to the respiratory system.

May cause depression of the central nervous system. (Nitroglycerin)

Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

##### Skin Absorption

After munitions have been fired, dust can be absorbed through the pores if left on the skin.

##### Ingestion

After munitions have been fired, dust, vapours and/or fumes may be absorbed by the digestive system and be irritating.

Can cause effects as described for inhalation.

#### Aspiration Hazard

Not known to be an aspiration hazard.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above.

#### Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

#### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP
Copper, metal	Not Listed	Not designated	Not Listed
Zinc metal	Not Listed	Not designated	Not Listed
2,4-Cyclohexadien-1-one, 6-diazo-2,4-dinitro-	Not Listed	Not designated	Not Listed
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide	Not Listed	Not designated	Not Listed
Polypropylene	Group 3	Not designated	Not Listed
Poly(oxymethylene)	Not Listed	Not designated	Not Listed
Cellulose nitrate	Not Listed	Not designated	Not Listed
Potassium nitrate	Not Listed	Not designated	Not Listed
Glycerol trinitrate	Not Listed	Not designated	Not Listed
Aluminum Powder	Not Listed	A4	Not Listed

IARC:

Group 3 – Not classifiable as to its carcinogenicity to humans.

ACGIH®:

A4 – Not classifiable as a human carcinogen.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists.

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

### Reproductive Toxicity

#### Development of Offspring

Not known to harm the unborn child.

#### Sexual Function and Fertility

Based on available data, the classification criteria are not met.

#### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

No information was located.

### Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

### Ecotoxicity

Toxic to aquatic life, based on acute toxicity tests. (Copper). (Zinc metal). (Aluminum Powder) Harmful to fish., (Glycerol trinitrate)

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Algae
Copper, metal	0.0224 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	0.2 mg/L (Daphnia magna (water flea); 48-hour)	Not available
Zinc metal	0.450 mg/L (96-hour)	0.068 mg/L (Daphnia magna (water flea); 48-hour)	0.15 mg/L (72-hour)
2,4-Cyclohexadien-1-one, 6-diazo-2,4-dinitro-	Not available	Not available	Not available
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide	Not available	Not available	Not available
Polypropylene	Not available	Not available	Not available
Poly(oxymethylene)	Not available	Not available	Not available
Cellulose nitrate	Not available	Not available	730 mg/L (Selenastrum capricornutum (algae); 96-hour)
Potassium nitrate	39 mg/L (Daphnia magna (water flea); 96-hour; fresh water; static)	Not available	Not available
Glycerol trinitrate	1.28 mg/L (Lepomis macrochirus (bluegill); 96-hour; static)	Not available	Not available
Aluminum Powder	0.12 mg/L (Oncorhynchus	Not available	Not available

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	mykiss (rainbow trout); 96-hour; static	
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**Persistence and Degradability**

No ingredient of this product or its degradation products is known to be highly persistent.

**Bioaccumulative Potential**

This product and its degradation products are not known to bioaccumulate.

**Mobility in Soil**

Not expected.

**Other Adverse Effects**

No other adverse environmental effects known.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

The recommended means for disposing of scrap material usually involves demilitarization of detonator assembly (i.e.: separating all explosive elements for individual destruction), It can also be done by incineration or open detonation but it is not the preferred way. The facility used for incineration must have been designed specifically for this purpose and meet applicable local, provincial (state) and federal regulations.

Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

Dispose of contents and container in accordance with local, regional, national and international regulations.

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN0012	Cartridges for weapons, small arms	1.4S	II
US DOT	UN0012	Cartridges for weapons, small arms	1.4S	II

**Environmental Hazards** Potential Marine Pollutant (Copper, metal)

**Special Precautions** Please note: Avoid shock and friction. Appropriate advice on safety must accompany the package.

**Transport in Bulk according to International Maritime Organization Instruments**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations****Canada****Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL/NDSL.

**CEPA - National Pollutant Release Inventory (NPRI)**

Part 1A. Copper (and its compounds); Zinc (and its compounds). (Potassium nitrate) Nitrate ion in solution at a pH of 6.0 or more. (Glycerol trinitrate) Aluminum (fume and dust only).

**USA****Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

**SECTION 16. OTHER INFORMATION**

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<b>Phone No.</b>	(450) 581-3080	
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<b>Revision Indicators</b>	SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information; Other sections in accordance with changes in section 3.	
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances Inh = Inhalation LC = Lethal Concentration LD = Lethal Dose EPA = Environmental Protection Agency PEL = Permissible exposure limit SDS = Safety Data Sheet STEL = Short Term Exposure Limit TDG = Canadian Transportation of Dangerous Goods Act & Regulations TLV = Threshold Limit Values TWA = Time Weighted Average WHMIS = Workplace Hazardous Materials Identification System N/Ap = Not Applicable	
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS). ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. Chempendium, HSDB and RTECS database. Available from Canadian Centre for Occupational Health and Safety (CCOHS).	
<b>Additional Information</b>	General information: This classification has been derived in accordance with SIMDUT 2015. Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.	
<b>Disclaimer</b>	This Safety Data Sheet was prepared by General Dynamics Ordnance and Tactical Systems - Canada Inc. using internal information and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. General Dynamics Ordnance and Tactical Systems - Canada Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process. This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of General Dynamics Ordnance and Tactical Systems - Canada Inc.	

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